

Reclamation Bond Estimate
Georgia Pacific Quarries
M/041/009

by
Frank J. Filas
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ITEM	QUANTITY	UNIT COST	COST/ACRE
<u>Mine Site</u>			
1. Backfill and Grade, D-9H	4 hrs	\$165.00/hr	\$ 660
2. Spread Stockpiled Soil & Rip, D-9H W/Ripper	2 hrs	165.00/hr	330
3. Seed and Fertilize			
Farm Tractor W/Disk	2 hrs	50.00/hr	100
Laborer	2 hrs	11.00/hr	22
Seed	20 lbs	4.22/lb	84
Fertilizer	200 lbs	.19/lb	38
4. Reseed if Necessary Assume 20% Area to be Reseeded			<u>49</u>
	Subtotal		\$1,332
	Ten Percent Contingency		<u>133</u>
	Total (1988 Dollars)		<u><u>1,465</u></u>
Total in 1993 dollars (2.3% inflation for 5 years)			\$1,641
Total in 2007 dollars (2.3% inflation for 19 years)			\$2,257

Note: The cost for seeding only is \$322 (1988\$), \$361 (1993\$),
and \$496 (2007\$).

<u>ITEM</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>COST/ACRE</u>
<u>Roads</u>			
1. Recontour Road Area			
D-9H	2 hrs	\$165.00/hr	\$ 330
2. Spread Stockpiled Soil			
and Rip, D-9H W/Ripper	2 hrs	165.00/hr	330
3. Seed and Fertilize			
Farm Tractor W/Disk	2 hrs	50.00/hr	100
Laborer	2 hrs	11.00/hr	22
Seed	20 lbs	5.22/lb	84
Fertilizer	200 lbs	.19/lb	38
4. Reseed if Necessary			
Assume 20% of Area			
to be Reseeded			<u>49</u>
	Subtotal		953
	Ten Percent Contingency		<u>95</u>
	Total (1987 Dollars)		<u>\$1,048</u>
	Total in 1993 Dollars (2.3% inflation for 5 years)		\$1,174
	Total in 2007 Dollars (2.31 inflation for 19 years)		\$1,614

Total Reclamation Cost - Five Year Bonding Period

Quarry Areas:	46.1 acres x \$1,641/acre = \$ 75,650
	3.9 acres x \$ 361/acre = \$ 1,410
Roads:	10.0 acres x \$1,174/acre = <u>\$ 11,740</u>
Total in 1993 Dollars	\$ 88,800

Total Reclamation Cost - 19 Year Bonding Period (Life of Mine)

Quarry Areas:	46.1 acres x \$2,257/acre = \$104,050
	3.9 acres x \$ 496/acre = \$ 1,930
Roads:	10.0 acres x \$1,614/acre = <u>\$ 16,140</u>
Total in 2007 Dollars	\$122,120

Summary of Disturbed Areas
Georgia Pacific Corporation
M/041/009

Note: The acreages below were determined by planimetering the quarry areas shown on the maps submitted in the 1987 Updated Plan. The 1987 reclaimed acreage was determined from the maps received February 4, 1988.

<u>CLAIMS</u>	<u>ACRES MINED OUT</u>	<u>ACRES CURRENTLY MINING</u>	<u>ACRES FUTURE</u>
Crescent	11.7	2.5	17.5
King's Meadow	3.7		
Western-North	4.2		
Western-South	6.5		.2
Western 40 & 41	<u>1.5</u>	<u> </u>	<u>5.2</u>
Totals	27.6	2.5	22.9

Total Quarry Acreage to be Disturbed = 53.0 Acres

QUARRY ACREAGE RECLAIMED IN 1987

<u>CLAIMS</u>	<u>COMPLETELY RECLAIMED</u>	<u>RECLAIMED, NOT SEEDED</u>
Crescent	0.0	3.0
Western-North	<u>3.3</u>	<u>0.9</u>
Totals	3.3	3.9

The 3.3 acres fully reclaimed will not be included in the bond estimate. The remaining 50 quarry acres will be bonded. 46.1 acres will be bonded for complete reclamation and 3.9 acres for seeding only.

ROADS

Ten acres of roads will be used for the calculation of the reclamation estimate. This acreage comes from the Mining and Reclamation plan and is probably on the low side. All mine roads which do not have a continuing use after mining is completed will have to be reclaimed.